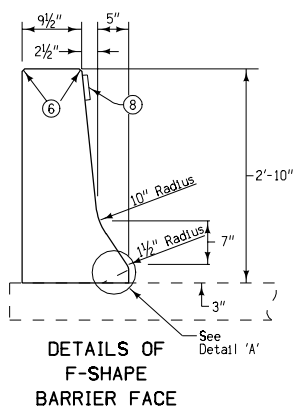
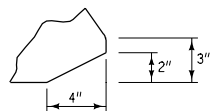


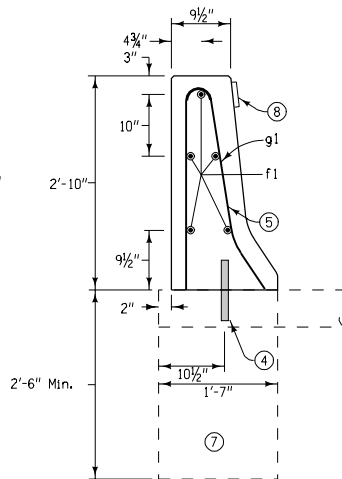
ELEVATION



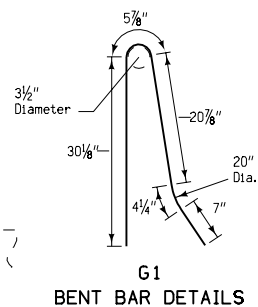
DETAILS OF
F-SHAPE
BARRIER FACE



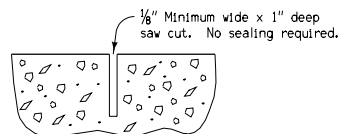
DETAIL 'A'
Special Shaping for Barrier over Intake



SECTION A-A



G1
BENT BAR DETAILS



DETAILS OF CONTRACTION JOINT
Saw cut top and front face. Saw cut back if exposed.

GENERAL NOTES:

Contract Item:

Concrete Barrier, RE-44E or
Concrete Barrier, RE-44E and Footing

- ① Expansion Joints are necessary only where specifically required by project plans and the expansion material shall conform to shape of barrier. No sealer is required.
- ② Contraction Joints shall be sawed as indicated hereon. Where abutting sections are placed as separate pours, a butt joint may be used. Longitudinal reinforcement shall be extended into the abutting section a minimum of 1'-6" (spanning the butt joint).
- ③ For barrier doweled to paved shoulders, match pavement joints. For free standing barrier with integral footings, use 20 foot maximum, 15' minimum joint spacing.

- ④ 1 inch diameter deformed bars of sufficient length to ensure 6 inch minimum embedment in rail and supporting surface. Dowel shall be either installed in supporting surface when placed or installed in drilled holes using polymer grout (Material's I.M. 491.11) or hydraulic cement grout (Material's I.M. 491.13).
- ⑤ Use minimum cover of 2 inches for rebars.
- ⑥ All exposed corners are to be filleted with a 3/4" dressed and beveled strip.
- ⑦ Concrete footing required when not placed on concrete slab. If footings are required, excavation shall be to neat lines. The footings may be poured without the use of forms. The Contractor may, as an option, form the footings and backfill around the completed footing.
- ⑧ Barrier markers to be spaced at 250 foot increments in areas with continuous lighting, 100 foot increments in areas with non-continuous lighting. Color shall be the same as adjacent edgeline.
- ⑨ Barrier reinforcement shall be anchored to prevent movement. Each section shall be secured at the front, back, and at 4 foot intervals. Method of anchorage shall be approved by the Engineer.

CONCRETE QUANTITIES
Per foot
0.10 cy³

REINFORCING BAR LIST Per Section (Approx. 20 feet)

Mark	Size	Number of Bars	Length	Mass (lbs.)
g1	5	14	5' 8"	83
f1	5	5	19' 6"	98

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RE-44E

REVISION: Add reinforcement; reduce dowel spacing; show reflectors; change title.	REVISION NO. 7
APPROVED BY DESIGN/METHODS ENGINEER <i>William J. Allen</i>	REVISION DATE 10-19-04

34" CONCRETE BARRIER
(HALF SECTION)